

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P00131W0</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB 02/ 05872</b>	International filing date (day/month/year) <b>20/12/2002</b>	(Earliest) Priority Date (day/month/year) <b>20/12/2001</b>

Applicant

THE UNIVERSITY OF SOUTHAMPTON

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1A

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No.

PC 02/05872

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 526 269 A (COMMISSARIAT ENERGIE ATOMIQUE ;UNIV PARIS CURIE (FR)) 3 February 1993 (1993-02-03)	1-4,7,8, 10,12,15
Y	page 2, line 37 -page 3, line 13  page 3, line 43 -page 4, line 14; figures 1A,1B,2,3,4,7A,7B examples 1-3  ---  -/--	5,6,11, 14

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

10 July 2003

Date of mailing of the international search report

23/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Fazio, V

## INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SVIRKO Y ET AL: "Layered chiral metallic microstructures with inductive coupling" APPLIED PHYSICS LETTERS, 22 JAN. 2001, AIP, USA, vol. 78, no. 4, pages 498-500, XP002247228 ISSN: 0003-6951	6,9,10, 12-15
Y	page 498, left-hand column, line 1 -right-hand column, line 22; figures 1,2 page 500, right-hand column, line 16-19 ----	5
A	EP 0 520 677 A (GRACE NV) 30 December 1992 (1992-12-30) page 2, column 11-26; figures 1-3 ----	1-4,7,9, 12
A	US 4 948 922 A (VARADAN VASUNDARA V ET AL) 14 August 1990 (1990-08-14) the whole document ----	1-4,15
Y	WO 99 18459 A (MURATA KOICHI ;SATO HIROMASA (JP); ASAHI GLASS CO LTD (JP)) 15 April 1999 (1999-04-15) abstract ----	6,11
A	US 4 885 734 A (YUZO ONO) 5 December 1989 (1989-12-05) column 3, line 20-29; figure 1 ----	6,11
Y	WO 01 26192 A (MAXION TECHNOLOGIES INC) 12 April 2001 (2001-04-12) page 3, line 24 -page 4, line 16 ----	14
A	US 6 162 987 A (WILT DAVID M ET AL) 19 December 2000 (2000-12-19) column 2, line 43 -column 3, line 11 -----	14

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box I.2

Claims Nos.: 16

The claims must not, in respect to technical features of the invention, rely on references to the drawings (Rule 6.2 PCT). For such claims a meaningful search is not possible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 02/05872

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 16  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC 02/05872

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0526269	A	03-02-1993	FR 2678470 A1 EP 0526269 A1	31-12-1992 03-02-1993
EP 0520677	A	30-12-1992	GB 2257303 A AT 135522 T DE 69208952 D1 DE 69208952 T2 EP 0520677 A1 US 5229773 A ZA 9203397 A	06-01-1993 15-03-1996 18-04-1996 19-09-1996 30-12-1992 20-07-1993 27-01-1993
US 4948922	A	14-08-1990	AU 652335 B2 AU 4408389 A EP 0442900 A1 JP 4507477 T WO 9003102 A1	25-08-1994 02-04-1990 28-08-1991 24-12-1992 22-03-1990
WO 9918459	A	15-04-1999	JP 11110787 A JP 11211905 A WO 9918459 A1	23-04-1999 06-08-1999 15-04-1999
US 4885734	A	05-12-1989	JP 2067211 C JP 7105057 B JP 63175238 A JP 2594548 B2 JP 63026604 A JP 2082775 C JP 6030166 B JP 63148439 A DE 3786497 D1 DE 3786497 T2 EP 0253403 A2	10-07-1996 13-11-1995 19-07-1988 26-03-1997 04-02-1988 23-08-1996 20-04-1994 21-06-1988 19-08-1993 17-02-1994 20-01-1988
WO 0126192	A	12-04-2001	AU 1073801 A WO 0126192 A1 US 6404791 B1	10-05-2001 12-04-2001 11-06-2002
US 6162987	A	19-12-2000	NONE	